

Title (en)
METHOD AND DEVICE FOR PRODUCING STRAIGHT CERAMIC FIBRES

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG GERADER KERAMISCHER FASERN

Title (fr)
PROCEDE ET DISPOSITIF DE PRODUCTION DE FIBRES CERAMIQUES DROITES

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Application
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Abstract (en)
[origin: US2006061018A1] The invention relates to an installation and method for producing straight ceramic fibres. Said installation essentially comprises a mixing device for producing a suspension of ceramic powder, aqueous amine oxide and cellulose. The suspension production occurs batch-wise or continuously and can take place in one or several steps with the addition of all or individual components. Said installation also comprises a device for concentrating the produced suspension of ceramic powder, aqueous amine oxide and cellulose, whereby said device intensively mixes with heating, shears and transports the suspension with water evaporation, until a precisely determined amount of water evaporates and a suspension of ceramic powder is formed in a mouldable solution of the cellulose in aqueous amine oxide. Said concentrating device also comprises a device linked to the above mentioned device, whereby the mouldable ceramic cellulose solution suspension is processed into ceramic raw fibres in a rope shape. Said concentrating device permits straight ceramic raw fibres to be formed and can be integrated with an installation, in which the raw fibre bundles are pyrolyzed and sintered.

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